



## INTRODUCTION

Laser technology is considered a key enabler for agile and green manufacturing, as well as for the digitalization of manufacturing processes. However, at the same time, laser-based manufacturing still finds strong entrance barriers in the industry, and in particular SMEs, often being considered too expensive or too complex.

Several EU-funded R&D projects are working towards lowering these barriers and trying to foster the implementation of laser-based advanced and additive manufacturing. In this workshop, the **EU projects INTEGRADDE, NEWSKIN, PULSATE, AMABLE, PHOTONHUB and LIGHTME** will present the mechanisms they have implemented to support the industry towards innovation and technology adoption in the field of laser-based manufacturing (Cascade Funding through individual experiments, funding support to third parties, test before invest, training, open pilot lines, open innovation test beds, and so on) as well as success stories from different industrial sectors.

## OBJECTIVES

- Present the services for the industry developed by several European-funded projects
- Showcase technology development performed through these projects by technology providers
- Showcase end users' experience innovation with laser advanced and additive manufacturing

## ADDRESSED TO

- Manufacturing companies in different industrial sectors such as automotive, aerospace, medical devices, industrial machinery, textile, or customized electronics.
- Digital innovation hubs supporting manufacturing companies.

## VENUE

### AIMEN TECHNOLOGY CENTRE - Laser Applications Centre

Polígono Industrial de Cataboi SUR-PPI-2 (Sector 2), Parcela 3

ES36418 O PORRIÑO - Pontevedra (Spain)

42° 8' 31.799" N 08° 38' 12.862" W

## DATE AND SCHEDULE

November 9<sup>th</sup> 2022 from 9.00 to 17.00 hours

## REGISTRATION

Participation in this workshop is free of charge.

To formalize your registration, you should fill out the form that you will find at <https://www.aimen.es/>

Your registration will be confirmed via email. Limited seating.

## PROVISIONAL PROGRAMME

08.30 to 09.00h

Registration

09.00 to 09.10h

Welcome

09.10 to 11.00h

### SESSION 1: Projects session: services for the industry

**AMABLE – Additive manufacturing services end-to-end**  
Camilo Prieto. AIMEN Technology Centre

**INTEGRADDE - Intelligent data-driven pipeline for the manufacturing of certified metal parts through Direct Energy Deposition process**  
Félix Vidal. AIMEN Technology Centre

**LIGHTME - Open Innovation Ecosystem for upscaling production processes of lightweight metal alloys composites**  
Pilar Rey. AIMEN Technology Centre

**NEWSKIN – Innovation Ecosystem to accelerate the industrial uptake of advanced surface nano-technologies.**  
Carlos del Castillo. ECCS - European Convention for Constructional Steelwork

**PHOTONHUB - One-Stop-Shop Open Access to Photonics Innovation Support for a Digital Europe**  
Maria Karpifowska. FundingBox

**PULSATE – Fostering the PAN European infrastructure for empowering SMEs digital competences in laser-based advanced and additive manufacturing**  
Pablo M. Romero. AIMEN Technology Centre

11.00 to 11.30h

**Coffee break**

11.30 to 13.30h

### SESSION 2: Technology session

**Multifunctional laser-induced micro & nano texturing of surfaces for high demanding applications**  
Evangelos Skoulas. Biomimetic Private Company

**In-situ quality control of metal AM process and parts**  
Bernard Revaz. AMiquam

**Sensor fusion and edge computing for Laser Metal Deposition**  
Juan Isaza. EXOM Engineering

**Advanced Internal laser cladding of barrels - BARRELCLAD**  
Germán Vergara. NIT - New Infrared Technologies

**Prima Additive: innovation, trends and advanced applications**  
John Stavridis. Prima Additive

**A successful PULSATE experiment : the AMLABS project**  
Gwenn Pallier. CAILABS

13.30 to 14.30h

**Lunch**

14.30 to 16.00h

### SESSION 3: Application session

**The added value of SMEs in European Projects**  
Deborah Federici. ML engraving

**Application of fibered laser for laser peening without coating to improve industrial metallic part performances**  
Adam Ayeb. Imagine Optics / Vincent Desfontaine. Europe Technologies - Sonats

**Additive Pilot Line for tool manufacturing and repair**  
Marko Kac. CORDA

**Application of laser technologies in the repair and overlays of large components**  
Javier Martínez. Hergome

**WAAMEN: Steel makes its way to aerospace**  
Lidia Hernández. CITD Engineering & Technologies

16.00 to 17.00h

**Visit to AIMEN's lab facilities**

*\*The Workshop will take place in English*

**ORGANISED BY:**



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